

Equipped for all applications

Maximum flexibility and minimum space requirement – these are the key prerequisites for high-performance switchgear and control cabinets in industrial environments. Switchgear cabinet manufacturers have to respond increasingly rapidly to their efficiency-conscious customers' requirements. Simplified configuration, planning and implementation bring you additional competitive advantages. The SIVACON 8MF1 system cubicles were rigorously designed to meet the increased demands placed on control cabinet construction.

The SIVACON 8MF1 modular system enables custom-tailored solutions to be configured for virtually all industrial sectors and applications. Whether fully assembled, adapted according to your specifications, or developed individually, the system cubicles support the individual creation of added value in control cabinet construction. With SIVACON 8MF1, you can also be sure of absolute compliance with relevant standards: The switchgear enclosures meet all currently applicable standards and regulations. Special versions, and control cabinets with various special certifications and specific approvals, as well as variants adapted to specific sectors, can be individually developed.



System Cubicles, System Lighting and System Air-Conditioning



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A multitude of additional information ...

Information + ordering

All the important things at a glance

For information about system cubicles, system lighting and system air-conditioning, please visit our website www.siemens.com/sivacon-8mf

Your product in detail

The Siemens Industry Online Support (SIOS) provides comprehensive information

www.siemens.com/lowvoltage/product-support

- Technical Basic Information
 - SIVACON 8MF1 system cubicle **(109767386)**
- Brochure
 - SIVACON 8MF1 system cubicles –
As versatile as your requirements **(109744677)**

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- System cubicles sie.ag/339cQB9

Direct forwarding to the individual products in the Industry Mall by clicking on the article number in the catalog or entering this web address incl. article number www.siemens.com/product?Article No.

Configurators

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your SIVACON 8MF1 system cubicle at

www.siemens.com/lowvoltage/8mf1-configurator

The following are additionally available for your configured SIVACON 8MF1 system cubicle:

- Parts lists
- 2D data
- 3D data

The fast track to the experts

Contact persons in your region

We offer a comprehensive portfolio of services.

You can find your local contacts at

www.siemens.com/lowvoltage/systems/contact

You will find further information on services at

www.siemens.com/service-catalog

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at

www.siemens.com/support-request

... can be found in our online services

Commissioning + operation

SIMARIS therm

The SIMARIS therm calculation tool helps you to easily and precisely dimension the heat dissipation of your control panels, simply by entering the ambient air temperature and selecting the relevant devices in the panel. If necessary, you can immediately select the necessary cooling devices and air conditioners. You can also define the necessary heating power for anti-condensation heating www.siemens.com/simaristherm

Manuals

Manuals are available for downloading in Siemens Industry Online Support (SIOS) at www.siemens.com/lowvoltage/manuals

- Operating Manual
 - Software SIMARIS therm planning tool (109744553)

Your product in detail

The Siemens Industry Online Support (SIOS) provides detailed technical information www.siemens.com/lowvoltage/product-support

- Operating instructions
- Certificates

Comprehensive mobile support via the Siemens Industry Online Support app available for download from the [App Store](#) and [Play Store](#)

You will find further information at www.siemens.com/support-app

Provision of 3D data (step and u3d data formats)

- Siemens Industry Mall www.siemens.com/lowvoltage/mall
- Image database www.siemens.com/lowvoltage/picturedb

Engineering data for CAD or CAE systems are available in the CAX Download Manager at www.siemens.com/cax

Technical overview – System cubicles, system lighting and system air-conditioning



The fast way to get you to our online services

This page provides you with comprehensive information and links on system cubicles, system lighting and system air-conditioning www.siemens.com/lowvoltage/product-support (109769091)

System overview

System cubicles, system lighting and system air-conditioning

For a complete and valid configuration of your system cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

SIVACON 8MF1 basic cubicles



Basic cubicles, IP40



Basic cubicles, IP55



Ventilated cubicles, IP20



Data cubicles, IP40



Earthquake-resistant cubicles, IP40

SIVACON 8MF1 configurable enclosures – Frames



Standard frames



Corner frames

Frame accessories



Bases



Separators



Trim strips



Transport eyebolts



Transport brackets



Cubicle suites

SIVACON 8MF1 configurable enclosures – Enclosures



Section doors



Ventilated doors



Glass doors



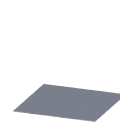
Door halves



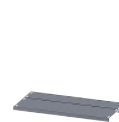
Compartment doors



Side walls/rear walls



Rooves



Floors

Enclosure accessories



Roof trays



Covers



Grilles



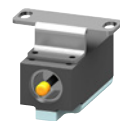
Strips



Hinges



Rotary handles



Door position switches

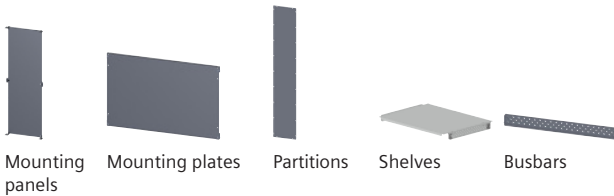


Door stays

Note:

You will find a detailed range of accessories with the basic units and in the Accessories section.

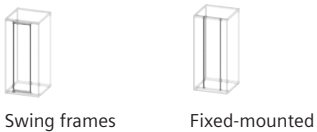
SIVACON 8MF1 configurable enclosures – Interior installation



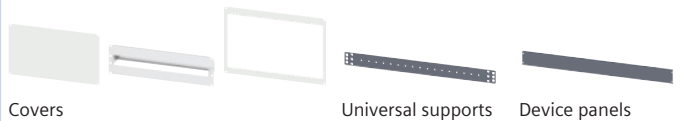
Interior installation accessories



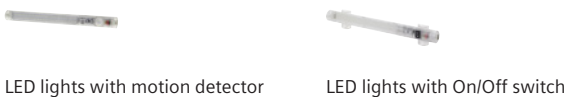
SIVACON 8MF1 configurable enclosures – 19-inch expansion



19-inch expansion accessories



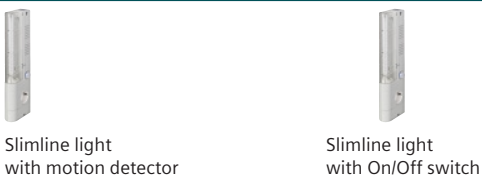
SIVACON 8MF/8MR system lighting – LED lights



LED lights accessories



SIVACON 8MF/8MR system lighting – Slimline lights



SIVACON 8MR system air-conditioning



Note:

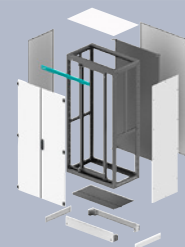
You will find a detailed range of accessories with the basic units and in the Accessories section.

System overview

SIVACON 8MF1 system cubicles



Standard types



Individual types

Available dimensions			
Height	mm	1800 2000 2200	Special dimensions available on request (max. 2400 mm)
Width	mm	400 600 800 900 1000 1200	Special dimensions available on request (max. 1600 mm)
Depth	mm	400 500 600 800 1000	Special dimensions available on request (max. 1200 mm)
Approvals			
Standards		IEC 62208	IEC 62208
Protection			
Degree of protection		IP20 IP40 IP55 Shock resistance IK09 Glass doors IK08	IP20 IP21 IP40 IP41 IP42 IP55 Shock resistance IK09 Glass doors IK08
Protection class		I	I
Enclosure			
Material		Sheet steel	Sheet steel
Surface		Zinc-plated Powder-coated	Zinc-plated Powder-coated
Color		RAL 7035 (light gray)	All RAL colors available, other color palettes available on request
Corrosivity category acc. to EN ISO 12944-2		C3 medium, paint thickness 100 µm (+/-25 µm)	Up to C5-M very high (marine), paint thickness 150 µm (+/-25 µm)
Material thickness			
Frame		2.5 mm	2.5 mm
Enclosure (without doors)		1.5 mm	≤2.5 mm
Mounting panels		2.5 mm	≤3.0 mm
Mounting plates		2.0 mm	≤3.0 mm
Doors		1.5 mm	≤2.0 mm
EMC attenuation			
EMC attenuation		www.siemens.com/lowvoltage/product-support	www.siemens.com/lowvoltage/product-support
Installable module heights (HU = 1 3/4" = 44.45 mm)			
	19" fixed-mounted	19" swing frame	
Height 1800 mm	36 HU	34 HU	On request
Height 2000 mm	41 HU	38 HU	On request
Height 2200 mm	45 HU	43 HU	On request

Quick selection guide

Two installation types



Stand-alone installation

- With side panels
(lockable in the case of data cubicles)



Suite installation

- Without side panels

Four versions



Basic version

- IP40 or IP55



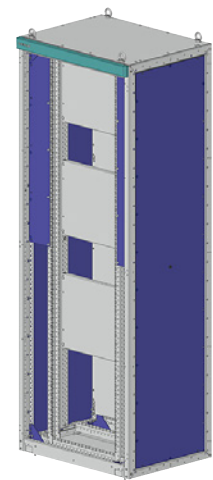
Ventilated cubicles

- IP20
- Door and roof with ventilation fins



Data cubicles

- IP40
- Glass door at front
- Section door at rear
- Roof with cable entry
- 19" fixed-mounted



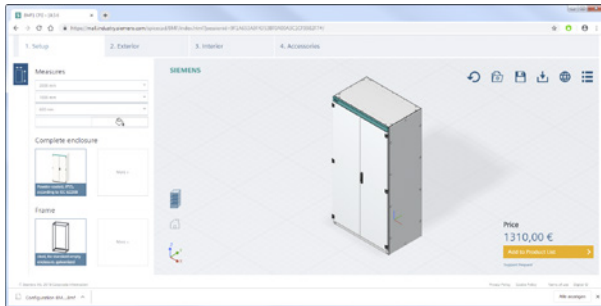
Earthquake-resistant version

- IP40
- Increased stability

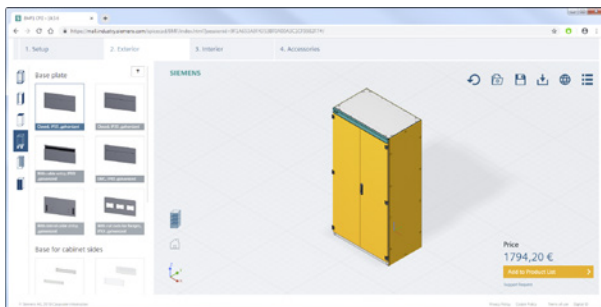
Online configurator highlights

www.siemens.com/lowvoltage/8mf1-configurator

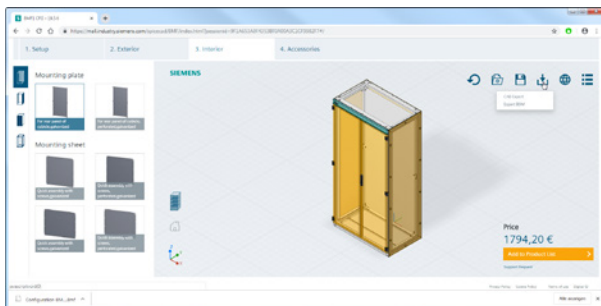
Graphical configuration directly on the 3D model



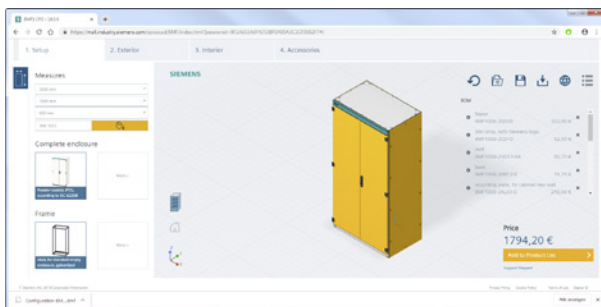
Customization of the control cabinet with cutouts and color



Exporting of parts lists and 3D and 2D data



Dynamic and interactive parts lists



Structure of the article numbers

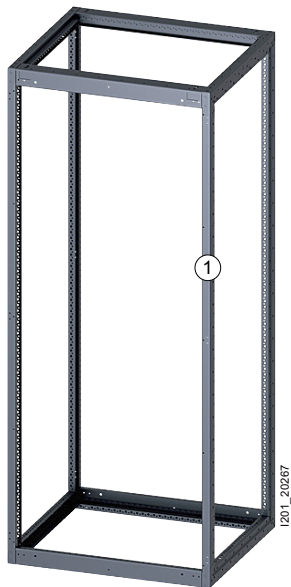
The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

8MF1			5	6	7	8	9	10	11
Height	1800 mm		8						
	2000 mm		0						
	2200 mm		2						
Width	400 mm			4					
	600 mm			6					
	800 mm			8					
	900 mm			9					
	1000 mm			0					
	1200 mm			2					
Depth	400 mm				4				
	500 mm				5				
	600 mm				6				
	800 mm				8				
	1000 mm				0				
Version	Basic						B		
	Ventilated						V		
	Data						D		
	Earthquake-resistant						E		
Installation	Stand-alone							S	
	Side by side							R	
Degree of protection	Basic cubicles, data cubicles	IP40							4
		IP55							5
	Ventilated cubicles	IP20							4
	Earthquake-resistant cubicles	IP40							5

Quick selection guide

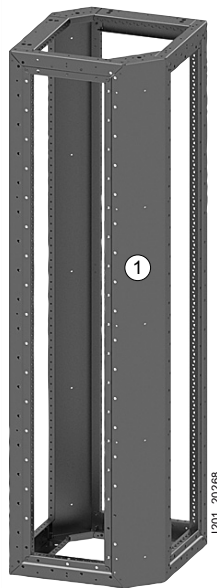
Frame

For standard enclosure

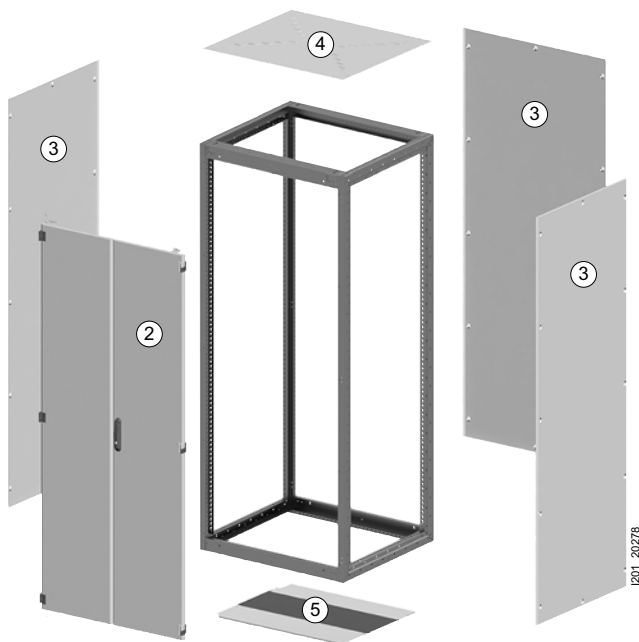


① Frame

For corner enclosure



Enclosure



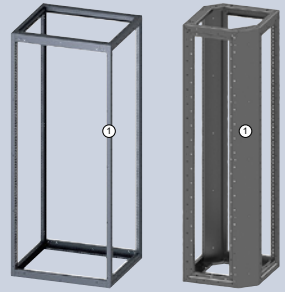
② Door, door half,
compartment door

③ Side panels, rear panel

④ Roof

⑤ Floor

① Frame



The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

For standard enclosure

		5	6	7	8	9	10	11	12
8MF1					3	G	S		0
Height	1800 mm	8							
	2000 mm	0							
	2200 mm	2							
Width	400 mm		4						
	600 mm		6						
	800 mm		8						
	900 mm		9						
	1000 mm		0						
	1200 mm		2						
Depth	400 mm			4					
	500 mm			5					
	600 mm			6					
	800 mm			8					
	1000 mm			0					
Material, surface	Zinc-plated							3	
	Powder-coated, RAL 7035							4	

For corner enclosure

		5	6	7	8	9	10	11	12
8MF1					2	G	E		0
Height	1800 mm	8							
	2000 mm	0							
	2200 mm	2							
Width	400 mm		4						
	600 mm		6						
	800 mm		8						
	1000 mm		0						
Depth	400 mm			5					
	600 mm			7					
	800 mm			0					
	1000 mm			1					
Material, surface	Zinc-plated							3	

① Frame

Accessories

The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

Base



8MF1		5	6	7	8	9	10
				0	2		
Height	100 mm	0					
	200 mm	2					
Width	400 mm		4				
	600 mm		6				
	800 mm		8				
	900 mm		9				
	1000 mm		0				
	1200 mm		2				
Version	Base for cubicles with door at the front and the rear					C	R
	Base and feet for cubicles with door at the front					C	S
	Base for corner cubicle					E	S

Base cover



8MF1		5	6	7	8	9	10
			0		2	C	
Height	100 mm	0					
	200 mm	2					
Depth	400 mm			4			
	500 mm			5			
	600 mm			6			
	800 mm			8			
	1000 mm			0			
Version	Base covers for cubicle sides						T

The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at
www.siemens.com/lowvoltage/8mf1-configurator

Trim strip



8MF1		5	6	7	8	9	10	11	12
		0		0	2	C	D		
Width	400 mm		4						
	600 mm		6						
	800 mm		8						
	900 mm		9						
	1000 mm		0						
	1200 mm		2						
Version	Trim strip petrol	Without Siemens logo, above the door		Without cutout				0	0
		With Siemens logo, left, above the door		Without cutout				1	0
		With Siemens logo, right, above the door		With cutout, left				1	6
		With Siemens logo, left, above the door		With cutout, right				1	7
	Trim strip RAL 7035	Without Siemens logo, below the door		Without cutout				0	8

Separator

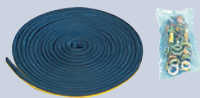
Separator for vertical division of the enclosure



Height	Article No.
1800 mm	8MF1165-2AT30
2000 mm	8MF1185-2AT30
2200 mm	8MF1205-2AT30

Mounting accessories

Accessories for cubicle suites



Version	Degree of protection	Article No.
Screw set	IP40	8MF1000-2CA
Sealing strip	IP40 to IP55	8MF1000-2CB
Side-by-side installation kit	IP40 EMC (IP55 not available)	8MF1000-2CE

Kit for stabilization of corner connections



Article No.
8MF1000-2HF

Transport accessories

Transport eyebolts



Load bearing capacity	Article No.
Up to 500 kg	8MF1000-2CK

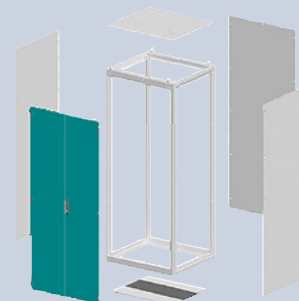
Transport brackets



Width	Article No.
400 mm	8MF1040-2CW
600 mm	8MF1060-2CW
800 mm	8MF1080-2CW
900 mm	8MF1090-2CW
1000 mm	8MF1000-2CW
1200 mm	8MF1020-2CW

② Door, door halves, compartment door

Door, door halves



The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

8MF1		5	6	7	8	9	10	11	12	13	14	15	16
				0	2	U	T						
Height	1800 mm	8											
	2000 mm	0											
	2200 mm	2											
Width	300 mm		3										
	400 mm		4										
	450 mm		7										
	500 mm		5										
	600 mm		6										
	800 mm		8										
	900 mm		9										
	1000 mm		0										
	1200 mm		2										
Door type	Door/inner door							1					
	Door halves (only available with hinging on the left)							2					
Hinge position	Left								5				
	Right								4				
Door version	IP20	With ventilation openings				Foamed seal		1			B	A	2
	IP40	Closed				EMC seal		0			C	A	1
		With ventilation slits				Foamed seal		2			B	A	2
	IP55	Closed				Foamed seal		0			B	A	2
		With inspection window				Foamed seal		0			B	E	2
	IPxx	With cutout 292 × 292 mm (up to IP55) for filter fan				Foamed seal		3			B	A	2
	–	Inner door, closed (up to 800 mm wide)				Without seal		4			B	A	2

Compartment door

The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

8MF1		5	6	7	8	9	10	11	12	13	14	15	16
				0	2	U	T	3	4	0	B	A	2
Compartment height	300 mm	3											
	400 mm	4											
	500 mm	5											
	600 mm	6											
	700 mm	7											
	800 mm	8											
	900 mm	9											
	1000 mm	0											
	1100 mm	1											
	1200 mm	2											
Width	600 mm	6											
	800 mm	8											

② Door, door halves, compartment door

Accessories

Door shelves



- Multi-purpose door bars required for mounting
- Shelf: RAL 7035

For door width	Mounting location			Article No.
	Door	Door halves	Compartment door	
600 mm	■	■	–	8MF1060-2VP
800 mm	■	■	–	8MF1080-2VP

Grilles



- To upgrade degree of protection from IP2x to IP4x
- Surface: zinc-plated

Width	Mounting location			Article No.
	Door	Door halves	Compartment door	
300 mm	■	■	–	8MF1030-2HM
400 mm	■	■	–	8MF1040-2HM
500 mm	■	■	–	8MF1050-2HM
600 mm	■	■	–	8MF1060-2HM
700 mm	■	■	–	8MF1070-2HM
800 mm	■	■	–	8MF1080-2HM
900 mm	■	■	–	8MF1090-2HM

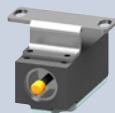
Strips



- For door reinforcement
- Surface: zinc-plated
- Cannot be used for glass doors

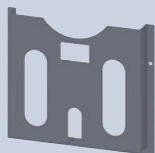
Height	Mounting location			Article No.
	Door	Door halves	Compartment door	
1800 mm	■	■	–	8MF1008-2VM
2000 mm	■	■	–	8MF1000-2VM
2200 mm	■	■	–	8MF1002-2VM

Door position switches



Version	Mounting location			Article No.
1 NO + 1 NC	■	■	■	8MF1000-2VL
1 NO + 2 NC	■	■	■	8MF1000-2VR

Circuit diagram pockets



- Cannot be used for glass doors

Version	Mounting location			Article No.
	Door	Door halves	Compartment door	
Plastic	■	■	–	8MF1000-2VK
Steel, zinc-plated	■	■	–	8MF1000-2VU

Limit plates



For a number n of compartment doors, n–1 limit plates are additionally required. Please order separately.

Width	Mounting location			Article No.
	Door	Door halves	Compartment door	
600 mm	–	–	■	8MF1060-2AK14-0
800 mm	–	–	■	8MF1080-2AK14-0

Door stays



- With variable opening angle: 90°, 120° and 150°
- Surface: zinc-plated

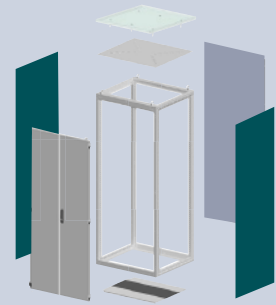
	Mounting location			Article No.
	Door	Door halves	Compartment door	
	■	■	–	8MF1000-2VG

Rotary handles					
	Version	Mounting location			Article No.
		Door	Door halves	Compartment door	
	With button insert and eye for padlock (Lock not included in 8MF portfolio)	■	–	–	8MF1000-2VN
Rotary handle inserts					
    	• Not suitable for door halves				
	Version	Mounting location			Article No.
		Door	Door halves	Compartment door	
	Double-bit key	■	–	–	8MF1000-2VA
	Square key	■	–	–	8MF1000-2VC
	Triangular key	■	–	–	8MF1000-2VD
	Daimler	■	–	–	8MF1000-2VE
	Cylinder lock	■	–	–	8MF1000-2VF

Spare part door

Hinge sets					
	Version	Mounting location			Article No.
		Door	Door halves	Compartment door	
	For left-hand hinge	■	■	■	8MF1000-2VT
	For right-hand hinge	■	■	■	8MF1000-2VW
Rotary handles					
	Version	Mounting location			Article No.
		Door	Door halves	Compartment door	
	With button insert	■	–	–	8MF1000-2VP
Grounding cables for doors					
	Cable cross-section	Mounting location			Article No.
		Door	Door halves	Compartment door	
	6 mm ²	■	■	■	8MF1010-2HD3

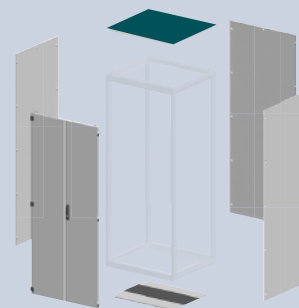
③ Side/rear panel



The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

8MF1				5	6	7	8	9	10	11	12	13	14
							2	U	W				
Height	1800 mm			8									
	2000 mm			0									
	2200 mm			2									
Width	300 mm				3								
	400 mm				4								
	450 mm				7								
	500 mm				5								
	600 mm				6								
	800 mm				8								
	900 mm				9								
	1000 mm/ No selection available for partitions				0								
	1200 mm				2								
Depth	No value					0							
	400 mm					4							
	500 mm					5							
	600 mm					6							
	800 mm					8							
	1000 mm/No selection available for side panels					0							
Side wall/ rear wall	IP40	Closed	Without seal							6	0	1	C
			EMC seal							6	2	1	B
			Flat							6	3	1	C
	IP55	Closed	Foamed seal							6	1	1	C
Partition		Closed	Without seal							7	0	3	C

④ Roof



The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

For standard systems

8MF1				5	6	7	8	9	10	11	12	13	14
				0			2	U	D				
Width	400 mm			4									
	600 mm			6									
	800 mm			8									
	900 mm			9									
	1000 mm			0									
	1200 mm			2									
Depth	400 mm			4									
	500 mm			5									
	600 mm			6									
	800 mm			8									
	1000 mm			0									
Version	IP20	Perforated	Without seal	2	0	0		A					
			Without seal	1	0	0		A					
			EMC seal	1	2	0		A					
	IP40	With ventilation fins		Without seal	3	0	0		A				
		Closed		Foamed seal	1	1	0		A				

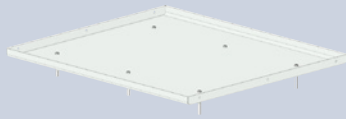
For corner enclosure

8MF1				5	6	7	8	9	10	11	12	13	14
				0	0		2	U	E				
Width/depth	400/400 mm					4							
	600/600 mm					6							
	800/800 mm					8							
	1000/1000 mm					0							
Version	For corner cubicle	IP20	With ventilation openings							2	0	0	A
			Closed							1	0	0	A
		IP40	With ventilation openings							3	0	0	A
			Closed							1	1	0	A
		IP55	Closed										

Accessories

Roof trays

Roof trays for increasing the degree of protection, IPX1



Width	Depth	Article No.
400 mm	400 mm	8MF1044-2VH
	500 mm	8MF1045-2VH
	600 mm	8MF1046-2VH
	800 mm	8MF1048-2VH
	1000 mm	8MF1040-2VH
600 mm	400 mm	8MF1064-2VH
	500 mm	8MF1065-2VH
	600 mm	8MF1066-2VH
	800 mm	8MF1068-2VH
	1000 mm	8MF1060-2VH
800 mm	400 mm	8MF1084-2VH
	500 mm	8MF1085-2VH
	600 mm	8MF1086-2VH
	800 mm	8MF1088-2VH
	1000 mm	8MF1080-2VH
900 mm	400 mm	8MF1094-2VH
	500 mm	8MF1095-2VH
	600 mm	8MF1096-2VH
	800 mm	8MF1098-2VH
	1000 mm	8MF1090-2VH
1000 mm	400 mm	8MF1004-2VH
	500 mm	8MF1005-2VH
	600 mm	8MF1006-2VH
	800 mm	8MF1008-2VH
	1000 mm	8MF1000-2VH
1200 mm	400 mm	8MF1024-2VH
	500 mm	8MF1025-2VH
	600 mm	8MF1026-2VH
	800 mm	8MF1028-2VH
	1000 mm	8MF1020-2VH

Roof tray rims

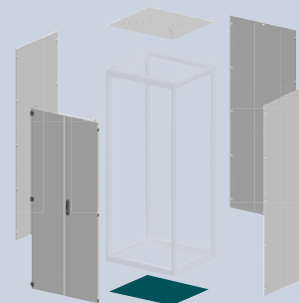
Roof tray rims for cubicle side, IPX1



Each cubicle or cubicle group with a roof tray requires two roof tray rims.
(1 set = 2 units)

Depth	Article No.
400 mm	8MF1004-2VB
500 mm	8MF1005-2VB
600 mm	8MF1006-2VB
800 mm	8MF1008-2VB
1000 mm	8MF1000-2VB

⑤ Floor



The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

For standard enclosure

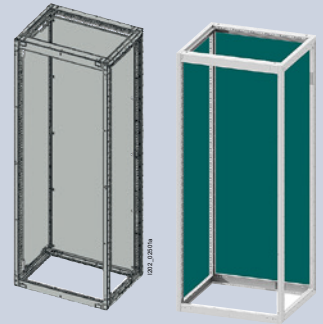
8MF1		5	6	7	8	9	10	11	12	13
		0			2	U	B			
Width	400 mm		4							
	600 mm		6							
	800 mm		8							
	900 mm		9							
	1000 mm		0							
	1200 mm		2							
Depth	400 mm			4						
	500 mm			5						
	600 mm			6						
	800 mm			8						
	1000 mm			0						
Version	IP30 Closed, divided							2	2	0
	IP40 Closed EMC seal							4	2	0
	IP55 Closed Foamed seal							1	2	0
	IPxx With cable entry							3	2	0
	With cable entry, lateral and rear ¹⁾							5	1	2
	With cut-outs for flanges							5	2	0

¹⁾ Version available from width ≥600 mm and depth ≥600 mm

For corner enclosure

8MF1		5	6	7	8	9	10	11	12	13
		0	0		2	U	E		1	0
Depth	400 mm			4						
	600 mm			6						
	800 mm			8						
	1000 mm			0						
Degree of protection	IP40							2		
	IP55							1		

Mounting panels

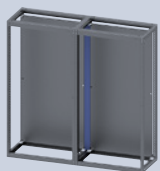


The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

8MF1		5	6	7	8	9	10	11	12	13
					2	A				0
Cubicle height	1800 mm	8								
	2000 mm	0								
	2200 mm	2								
Cubicle width	400 mm		4							
	600 mm		6							
	800 mm		8							
	900 mm		9							
	1000 mm/No selection available for installation on side of cubicle		0							
	1200 mm		2							
Depth	400 mm			4						
	500 mm			5						
	600 mm			6						
	800 mm			8						
	1000 mm/No selection available for installation on cubicle width			0						
Installation location	Cubicle width						L			
	Cubicle side						K			
Version	Smooth							0		
	Perforated							1		
Material	2.5 mm sheet steel									3

Accessories

Mounting panel adapters



- For connecting side-by-side mounting panels
- Surface: zinc-plated

Height	Article No.
1800 mm	8MF1800-2CH
2000 mm	8MF1000-2CH
2200 mm	8MF1200-2CH

Mounting plates

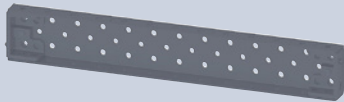


The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

8MF1		5	6	7	8	9	10	11	12	13
				0	2	A				0
Height	100 mm	1								
	200 mm	2								
	300 mm	3								
	400 mm	4								
	600 mm	6								
	800 mm	8								
Width	400 mm		4							
	600 mm		6							
	800 mm		8							
	900 mm		9							
	1000 mm		0							
	1200 mm		2							
Installation location	Fixed with zinc die-cast parts between the bars of the frame						M			
	Fixed directly to the frame						A			
Version	Smooth							0		
	Perforated							1		
Material	2.0 mm sheet steel									2

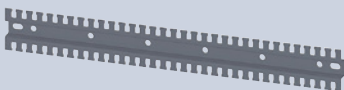
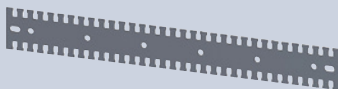
Mounting rails

Mounting rails (50)



Length	Version	Article No.
250 mm	Suitable for cubicle depth 400 mm	8MF1025-2AS30
325 mm	Suitable for cubicle width 400 mm	8MF1032-2AS30
350 mm	Suitable for cubicle depth 500 mm	8MF1035-2AS30
425 mm	–	8MF1042-2AS30
450 mm	Suitable for cubicle depth 600 mm	8MF1045-2AS30
525 mm	Suitable for cubicle width 600 mm	8MF1052-2AS30
550 mm	–	8MF1055-2AS30
625 mm	–	8MF1062-2AS30
650 mm	Suitable for cubicle depth 800 mm	8MF1065-2AS30
725 mm	Suitable for cubicle width 800 mm	8MF1072-2AS30
750 mm	–	8MF1075-2AS30
825 mm	Suitable for cubicle width 900 mm	8MF1082-2AS30
850 mm	Suitable for cubicle depth 1000 mm	8MF1085-2AS30
925 mm	Suitable for cubicle width 1000 mm	8MF1092-2AS30
1050 mm	–	8MF1105-2AS30
1125 mm	Suitable for cubicle width 1200 mm	8MF1112-2AS30
1250 mm	–	8MF1125-2AS30
1350 mm	–	8MF1135-2AS30
1450 mm	–	8MF1145-2AS30
1550 mm	–	8MF1155-2AS30
1650 mm	Suitable for cubicle height 1800 mm	8MF1165-2AS30
1750 mm	–	8MF1175-2AS30
1850 mm	Suitable for cubicle height 2000 mm	8MF1185-2AS30
1950 mm	–	8MF1195-2AS30
2050 mm	Suitable for cubicle height 2200 mm	8MF1205-2AS30
2150 mm	–	8MF1215-2AS30
2250 mm	–	8MF1225-2AS30

Mounting rails, serrated



Version	Article No.
Flat	8MF1060-2HC13-0
	8MF1080-2HC13-0
	8MF1090-2HC13-0
	8MF1000-2HC13-0
	8MF1020-2HC13-0
U-shape	8MF1060-2HC03-0
	8MF1080-2HC03-0
	8MF1090-2HC03-0
	8MF1000-2HC03-0
	8MF1020-2HC03-0

Mounting rails, compact



Version	Length	Article No.
Suitable for cubicle width	600 mm	8MF1056-2AS30
	1000 mm	8MF1096-2AS30
	1200 mm	8MF1006-2AS30
Suitable for door width	300 mm	8MF1016-2AS30
	400 mm	8MF1026-2AS30
	450 mm	8MF1031-2AS30
	500 mm	8MF1036-2AS30
	600 mm	8MF1046-2AS30
	800 mm	8MF1066-2AS30
	900 mm	8MF1076-2AS30
	1000 mm	8MF1086-2AS30

Mounting rails, heavy duty



- Can be installed in the cubicle depth and width (the length corresponds to the appropriate cubicle dimension)

Length	Article No.
600 mm	8MF1060-2AH60
800 mm	8MF1080-2AH60
900 mm	8MF1090-2AH60
1000 mm	8MF1000-2AH60
1200 mm	8MF1020-2AH60

General accessories interior installation

Telescopic rails



- For withdrawable shelves

For cubicle depth	Article No.
400 mm and 600 mm	8MF1003-2HF
800 mm and 1000 mm	8MF1006-2HF

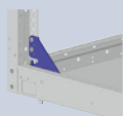
Mounting brackets



- For mounting expansion elements

Article No.
8MF1000-2CP

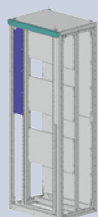
Earthquake assembly kits



For stabilization of	Article No.
Corner connections	8MF1000-2HA



Intermediate panel	8MF1000-2HW
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19" fixed-mounted	8MF1000-2HE
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Grounding plates



- For fixing to the frame (although fixing points for ground connection are already provided on the frame)

Article No.
8MF1000-2HK

Grounding bars



Version	Width	Article No.
30 × 10 mm ²	600 mm	8MF1060-2HD2
	800 mm	8MF1080-2HD2
	900 mm	8MF1090-2HD2
	1000 mm	8MF1000-2HD2
	1200 mm	8MF1020-2HD2
30 × 5 mm ²	600 mm	8MF1060-2HD1
	800 mm	8MF1080-2HD1
	900 mm	8MF1090-2HD1
	1000 mm	8MF1000-2HD1
	1200 mm	8MF1020-2HD1

Grounding screws



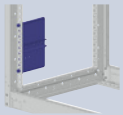
Thread	Article No.
M12	8MF1000-2HB

Grounding straps



Cross-section	Article No.
16 mm ²	8MF1000-2HK1
32 mm ²	8MF1000-2HK2

Universal sheets



- Incl. DIN rail; e.g. for mounting a heater unit

Article No.

8MF1000-2HG

DIN rails



- For mounting modular installation devices

Height

Article No.

7.5 mm

8MF1500-2HS

15 mm

8MF1100-2HS

Insulated supports



Thread

Dimensions

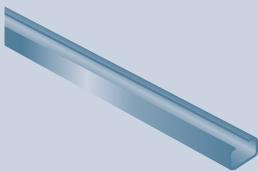
Article No.

M8

D 40 x 50 mm

8MF1000-2VY

Cable clamping rails



Height

Width

Depth

Article No.

30 mm

600 mm

–

8MF1360-2HH

800 mm

–

8MF1380-2HH

900 mm

–

8MF1390-2HH

1000 mm

–

8MF1310-2HH

1200 mm

–

8MF1320-2HH

–

400 mm

8MF1304-2HH

600 mm

8MF1306-2HH

800 mm

8MF1308-2HH

1000 mm

8MF1301-2HH

40 mm

600 mm

–

8MF1460-2HH

800 mm

–

8MF1480-2HH

900 mm

–

8MF1490-2HH

1000 mm

–

8MF1410-2HH

1200 mm

–

8MF1420-2HH

–

400 mm

8MF1404-2HH

600 mm

8MF1406-2HH

800 mm

8MF1408-2HH

1000 mm

8MF1401-2HH

50 mm

600 mm

–

8MF1560-2HH

800 mm

–

8MF1580-2HH

900 mm

–

8MF1590-2HH

1000 mm

–

8MF1510-2HH

1200 mm

–

8MF1520-2HH

–

400 mm

8MF1504-2HH

600 mm

8MF1506-2HH

800 mm

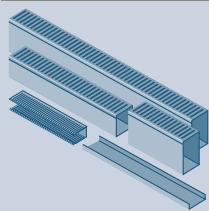
8MF1508-2HH

1000 mm

8MF1501-2HH

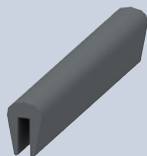
General accessories interior installation

Cable ducts



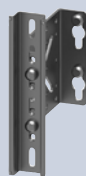
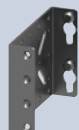
Version	Color	Height	Width	Article No.
Halogen-free	RAL 7035	37.5 mm	25 mm	8MF1120-2HL7
		50 mm	25 mm	8MF1220-2HL7
			37.5 mm	8MF1240-2HL7
			50 mm	8MF1250-2HL7
			75 mm	8MF1260-2HL7
		75 mm	50 mm	8MF1350-2HL7
			75 mm	8MF1360-2HL7
			100 mm	8MF1370-2HL7
			125 mm	8MF1380-2HL7
		100 mm	75 mm	8MF1460-2HL7
Standard	RAL 7030	37.5 mm	25 mm	8MF1120-2HL6
		50 mm	25 mm	8MF1220-2HL6
			37.5 mm	8MF1240-2HL6
			50 mm	8MF1250-2HL6
			75 mm	8MF1260-2HL6
		75 mm	50 mm	8MF1350-2HL6
			75 mm	8MF1360-2HL6
			100 mm	8MF1370-2HL6
			125 mm	8MF1380-2HL6
		100 mm	75 mm	8MF1460-2HL6

Edge protection



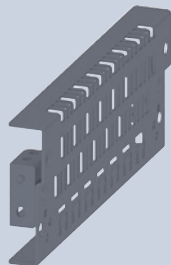
Dimensions	Article No.
9.5 × 6.5 mm	8MF1000-2CD

Mounting plates



Dimensions	Version	Article No.
122 × 91 mm	Standard	8MF1000-2HH
122 × 92 mm	With DIN rail	8MF1000-2HH1

Buses for improving EMC



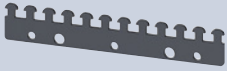
Installation in	Width	Depth	Article No.
Cubicle width	400 mm	–	8MF1040-2HN
	600 mm	–	8MF1060-2HN
	800 mm	–	8MF1080-2HN
	900 mm	–	8MF1090-2HN
	1000 mm	–	8MF1000-2HN
	1200 mm	–	8MF1020-2HN
Cubicle depth	–	400 mm	8MF1004-2HN
	–	600 mm	8MF1006-2HN
	–	800 mm	8MF1008-2HN
	–	1000 mm	8MF1001-2HN

Brackets

- For variable mounting of cable clamping rails

Article No.

8MF1000-2HH5

Toothed bars

- For installation on mounting rail

Length

100 mm

Article No.

8MF1000-2HC

Contact washers

- Size 6

Scope of supply

100 units

Article No.

8MF1000-2VJ

Screws

- M6 × 12

Scope of supply

100 units

Article No.

8MF1000-2VS

Adapters for wiring systems

Version

For Lütze wiring system

For Promet wiring system

Article No.

8MF1000-2HL

8MF1000-2HP

19-inch expansion

Cubicle frames



- For the installation of 19" devices, screwed
- In combination with 2 mounting rails, heavy duty in cubicle width (order mounting rail separately, [see page 17/25](#))
- For cubicle width ≥ 600 mm

Surface	Height	For mounting height	Article No.
Zinc-plated	400 mm	7 HU	8MF1100-2AN30
	600 mm	12 HU	8MF1200-2AN30
	800 mm	16 HU	8MF1300-2AN30
	1000 mm	21 HU	8MF1400-2AN30
	1200 mm	25 HU	8MF1500-2AN30
	1400 mm	30 HU	8MF1600-2AN30
	1800 mm	36 HU	8MF1700-2AN30
	2000 mm	41 HU	8MF1800-2AN30
	2200 mm	45 HU	8MF1900-2AN30

Swing frames



- For the installation of 19" devices, screwed
- Left-hand/right-hand hinge
- In combination with 2 mounting rails, heavy duty in cubicle width (order mounting rail separately)
- For cubicle width ≥ 800 mm

Version	Surface	Height	For mounting height	Article No.
Screwed ¹⁾	Zinc-plated	1800 mm	34 HU	8MF1800-2AR02-4
		2000 mm	38 HU	8MF1000-2AR02-4
		2200 mm	43 HU	8MF1200-2AR02-4
	Powder-coated	1800 mm	34 HU	8MF1800-2AR02-3
		2000 mm	38 HU	8MF1000-2AR02-3
		2200 mm	43 HU	8MF1200-2AR02-3
Welded ²⁾	Powder-coated		34 HU	8MF1800-2AR02-2
			38 HU	8MF1000-2AR02-2
			43 HU	8MF1200-2AR02-2

¹⁾ Interlocking with 3 mm double-bit key

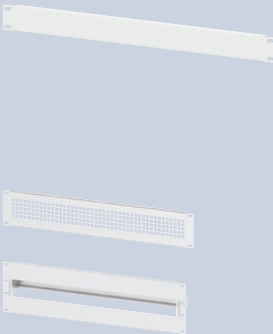
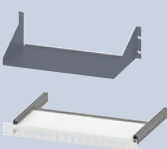
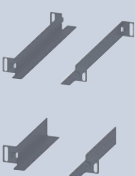
²⁾ Spring interlocking at top and bottom

Accessories

Universal supports



Version	For mounting height	Article No.
For cable channel, DIN rail and C rail	1 HU	8MF1000-2HH2
	2 HU	8MF1000-2HH3
For cable channel, DIN rail, C rail and lamp		8MF1000-2HH4

Covers					
	Version	Surface	For mounting height		Article No.
	Closed	RAL 7035	1 HU		8MF1000-2AB01
			2 HU		8MF1000-2AB02
			3 HU		8MF1000-2AB03
			4 HU		8MF1000-2AB04
			5 HU		8MF1000-2AB05
			6 HU		8MF1000-2AB06
			7 HU		8MF1000-2AB07
	With ventilation openings	RAL 7035	2 HU		8MF1000-2AB32
			3 HU		8MF1000-2AB33
For modular installation devices, for 24 modular widths	RAL 7035	3 HU		8MF1000-2AB31	
Frames					
	Version	Surface	For mounting height		Article No.
	For mounting test switches, 19"	RAL 7035	7 HU		8MF1000-2AB30
Covers for frames					
	Version	Surface			Article No.
	For mounting 7XP 1/6 standard devices	RAL 7035			8MF1000-2AB34
	For mounting 7XP 2/6 standard devices	RAL 7035			8MF1000-2AB35
	For mounting 7XP 3/6 standard devices	RAL 7035			8MF1000-2AB36
Shelves					
	• For 19" frame				
	Version	Surface	For mounting height	Depth	Article No.
	Non-adjustable	Zinc-plated	3 HU	230 mm	8MF1000-2AB12
				400 mm	8MF1000-2AB14
	Withdrawable	RAL 7035	1 HU		8MF1000-2HF12
Slide rails					
	Version	Depth		Article No.	
	For 19" fixed-mounted (double mounting at front and rear)	400 mm		8MF1004-2HG12	
		600 mm		8MF1006-2HG12	
		800 mm		8MF1008-2HG12	
		1000 mm		8MF1000-2HG12	
	For 19" fixed-mounted and for 19" swing frame			8MF1000-2HS12	
Device panels					
	Version	Surface	Height	Width	Article No.
	For 24 modular widths	Zinc-plated	1800 mm	100 mm	8MF1810-2AB00
				150 mm	8MF1850-2AB00
				200 mm	8MF1820-2AB00
			2000 mm	100 mm	8MF1010-2AB00
				150 mm	8MF1050-2AB00
				200 mm	8MF1020-2AB00
			2200 mm	100 mm	8MF1210-2AB00
				150 mm	8MF1250-2AB00
				200 mm	8MF1220-2AB00

Quick selection guide

LED lights

The LED lights offer optimum lighting conditions for installation and maintenance.
The LED technology is energy-efficient and maintenance-free.

Magnetic fixing

Easy installation at any point on the steel cubicle

Screw fixing

Fixed installation in the case of impact loads or high vibration levels

Clip fixing

The lamp is snapped into the clip bracket and can be turned in both directions

With motion detector

The lights switch on when the door is opened, enabling work in the cubicle to be started immediately

With On/Off switch

Particularly suitable for operation in cubicles and enclosures with a high density of built-in electrical/electronic components



Slimline lights

The Slimline lights are an alternative with an energy-saving lamp and are also available as a version with an integrated socket.

		Screw fixing	Magnetic fixing
With motion detector The lights switch on when the door is opened, enabling work in the cubicle to be started immediately	With socket outlet		
	Without socket outlet		
With On/Off switch Particularly suitable for operation in cubicles and enclosures with a high density of built-in electrical/electronic components	With socket outlet		
	Without socket outlet		

LED lights

Magnetic fixing



Version	Voltage	Standard	Article No.
With motion detector	100 ... 240 V AC, 50/60 Hz	VDE	8MR2200-0A
	24 ... 48 V DC	VDE	8MR2201-0A
With On/Off switch	100 ... 240 V AC, 50/60 Hz	VDE, UL	8MR2200-1A
	24 ... 48 V DC	VDE, UL	8MR2201-1A

Screw fixing



Version	Voltage	Standard	Article No.
With motion detector	100 ... 240 V AC, 50/60 Hz	VDE	8MR2200-0B
	24 ... 48 V DC	VDE	8MR2201-0B
With On/Off switch	100 ... 240 V AC, 50/60 Hz	VDE, UL	8MR2200-1B
	24 ... 48 V DC	VDE, UL	8MR2201-1B

Clip fixing



Version	Voltage	Standard	Article No.
With motion detector	100 ... 240 V AC, 50/60 Hz	VDE	8MR2200-0C
	24 ... 48 V DC	VDE	8MR2201-0C
With On/Off switch	100 ... 240 V AC, 50/60 Hz	VDE	8MR2200-1C
	24 ... 48 V DC	VDE	8MR2201-1C

Accessories

Cables

Connecting cables with socket and open end



- For connection of an LED light (switch side)
- Length 2 m

Version	Cross-section	Standard	Article No.
AC connecting cable	2× 1.5 mm ²	VDE	8MR2210-1B
	AWG 16	VDE, UL	8MR2210-2B
DC connecting cable	2× 1.5 mm ²	VDE	8MR2210-3B
	AWG 16	VDE, UL	8MR2210-4B

Extension cables with socket and plug



- For looping through to another LED light
- Length 1 m

Version	Cross-section	Standard	Article No.
AC plastic-sheathed cable	2× 1.5 mm ²	VDE	8MR2210-1C
	AWG 16	VDE, UL	8MR2210-2C
DC plastic-sheathed cable	2× 1.5 mm ²	VDE	8MR2210-3C
	AWG 16	VDE, UL	8MR2210-4C

Individual plugs or sockets for self-assembly of cables

For connection of an LED light (switch side)



Version	Application	Standard	Color	Article No.
AC socket	For input side	VDE	White	8MR2210-1A
DC socket	For input side	VDE	Blue	8MR2210-3A

For looping through to another LED light



Version	Application	Standard	Color	Article No.
AC connector	For output side	VDE	White	8MR2210-2A
DC connector	For output side	VDE	Blue	8MR2210-4A

Slimline lights



Slimline lights with motion detector, acc. to VDE			
230 V AC, 50/60 Hz	With socket outlet	8MF5910-1A	8MF5910-1C
	Without socket outlet	8MF5910-2A	8MF5910-2B
Slimline lights with On/Off switch, acc. to VDE			
230 V AC, 50/60 Hz	With socket outlet	8MF5900-1A	8MF5900-1C
	Without socket outlet	8MF5900-2A	8MF5900-2B

Quick selection guide

Solutions to provide protection against heat

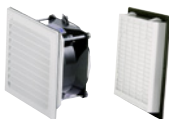
Cooling devices



Heat exchangers



Filter fans/outlet fans



Thermostats



Solutions to provide protection against cold

Heater units



Fan heaters



Thermostats



Solutions to provide protection against corrosion and condensation

Heater units/fan heaters



Filter fans/outlet filters



Thermostats



Hygrostats/hygrotherms



SIMARIS therm

SIEMENS

1 Project definition
2 System planning
3 Calculation
4 Project outputs

- New project
- System (SYACON BMF2)
 - 3-phase 380V/50Hz/3W
- System (predefined enclosure)
 - ☐ Predefined enclosure

Devices		Number of units	Order number	Description	Quantity	Number...	Connected poles	Rated current [A]	RFD (rated disconnector)	Power loss, pole of
	000	6SL3210-1EX14-1AA	DIAMAC® 6SL3210-1EX14-1AA	1	0	0	0.00			
	000	6SL3210-1EX14-1AA	DIAMAC® 6SL3210-1EX14-1AA	1	0	0	0.00			
•	80000	3WL1208-1-...	AIR CIRCBTR 3WL1208-1-...	1	3	3	50000			2
	20000	3WL1208-20000-1-...	AIR CIRCBTR 3WL1208-20000-1-...	1	3	3	10000			1
	63000	3WL1208-63000-1-...	AIR CIRCBTR 3WL1208-63000-1-...	1	3	3	63000			2

Barriers

Amperage [mm²] Cross-section [mm²] Length [mm] Resistance [mΩ/m] Number of poles Calculated power loss [W]

Power loss, devices [mW] 145.0 with RFD 80 % (Einfluss Größe können einen abweichenden Ausrechnungsfaktor haben)

• Power loss, wiring [mW] 43.6

• Power loss, barriers [mW] 0.0

• Dismissible power loss for cooling [mW] 540.0 (selection of devices) BM6642-55008

• Total power loss [mW] 451.6

Dismissible power loss [mW] at the maximum 236.0 corresponds to 28 A at 70% filling of the enclosure

The effective power losses of all devices can be determined by the enclosure.

The SIMARIS therm calculation tool helps you to easily and precisely dimension the heat dissipation of your control panels, simply by entering the ambient air temperature and selecting the relevant devices in the panel. If necessary, you can immediately select the necessary cooling devices and air conditioners. You can also define the necessary heating power for anti-condensation heating.

For a free download, and further information, visit:
www.siemens.com/simaristherm

Filter fans and outlet filters

Filter fans

							Degree of protection IP54		Degree of protection IP55	
	Size	Cutout	Voltage	Input rating at 50 Hz	Standard	Color	Air current, free-blowing at 50 Hz	Article No.	Air current, free-blowing at 50 Hz	Article No.
	Filter fans with EC technology									
	2	125 × 125 mm	115 V AC, 50/60 Hz	4.4 W	VDE	RAL 7035	62 m³/h	8MR6411-5LE25		–
			230 V AC, 50/60 Hz	4.4 W	VDE	RAL 7035	62 m³/h	8MR6423-5LE25		–
	3	177 × 177 mm	115 V AC, 50/60 Hz	4.4 W	VDE	RAL 7035	120 m³/h	8MR6411-5LE30		–
			230 V AC, 50/60 Hz	4.4 W	VDE	RAL 7035	120 m³/h	8MR6423-5LE30		–
	Standard filter fans									
	1	92 × 92 mm	115 V AC, 50/60 Hz	12 W	VDE	RAL 7035	25 m³/h	8MR6411-5LV10		–
			230 V AC, 50/60 Hz	12 W	VDE, UL	RAL 7032	25 m³/h	8MR6423-2LV10		–
					VDE, UL	RAL 7035	25 m³/h	8MR6423-5LV10		–
	2	125 × 125 mm	115 V AC, 50/60 Hz	20 W	VDE, UL	RAL 7035	63 m³/h	8MR6411-5LV25	58 m³/h	8MR6511-5LV25
			230 V AC, 50/60 Hz	20 W	VDE, UL	RAL 7032	63 m³/h	8MR6423-2LV25		–
					VDE, UL	RAL 7035	63 m³/h	8MR6423-5LV25	58 m³/h	8MR6523-5LV25
	3	177 × 177 mm	115 V AC, 50/60 Hz	20 W	VDE, UL	RAL 7035	115 m³/h	8MR6411-5LV30	105 m³/h	8MR6511-5LV30
			230 V AC, 50/60 Hz	20 W	VDE, UL	RAL 7035	115 m³/h	8MR6423-5LV30	105 m³/h	8MR6523-5LV30
	4	223 × 223 mm	115 V AC, 50/60 Hz	18 W	VDE, UL	RAL 7035	160 m³/h	8MR6411-5LV45	147 m³/h	8MR6511-5LV45
				43 W	VDE, UL	RAL 7035	250 m³/h	8MR6411-5LV41	230 m³/h	8MR6511-5LV41
			230 V AC, 50/60 Hz	18 W	VDE, UL	RAL 7032	160 m³/h	8MR6423-2LV45		–
					VDE, UL	RAL 7035	160 m³/h	8MR6423-5LV45	147 m³/h	8MR6523-5LV45
				45 W	VDE, UL	RAL 7032	250 m³/h	8MR6423-2LV41		–
				VDE, UL	RAL 7035	250 m³/h	8MR6423-5LV41	230 m³/h	8MR6423-5LV41	
			24 V DC	16 W	VDE, UL	RAL 7032	250 m³/h	8MR6402-2LV41		–
	6	292 × 292 mm	115 V AC, 50/60 Hz	64 W	VDE, UL	RAL 7035	580 m³/h	8MR6411-5LV60	531 m³/h	8MR6511-5LV60
				115 W	VDE, UL	RAL 7035	930 m³/h	8MR6411-5LV80	850 m³/h	8MR6511-5LV80
			230 V AC, 50/60 Hz	64 W	VDE, UL	RAL 7032	580 m³/h	8MR6423-2LV60		–
					VDE, UL	RAL 7035	580 m³/h	8MR6423-5LV60	531 m³/h	8MR6523-5LV60
				135 W	VDE, UL	RAL 7035	930 m³/h	8MR6423-5LV80	850 m³/h	8MR6523-5LV80
		EMC filter fans								
3		177 × 177 mm	115 V AC, 50/60 Hz	20 W	VDE, UL	RAL 7035	115 m³/h	8MR6411-6LV30	105 m³/h	8MR6511-6LV30
			230 V AC, 50/60 Hz	20 W	VDE, UL	RAL 7035	115 m³/h	8MR6423-6LV30	105 m³/h	8MR6523-6LV30
4		223 × 223 mm	115 V AC, 50/60 Hz	18 W	VDE, UL	RAL 7035	160 m³/h	8MR6411-6LV45	147 m³/h	8MR6511-6LV45
				43 W	VDE, UL	RAL 7035	250 m³/h	8MR6411-6LV41	230 m³/h	8MR6511-6LV41
			230 V AC, 50/60 Hz	18 W	VDE, UL	RAL 7035	160 m³/h	8MR6423-6LV45	147 m³/h	8MR6523-6LV45
				45 W	VDE, UL	RAL 7035	250 m³/h	8MR6423-6LV41	230 m³/h	8MR6523-6LV41

Filter fans and outlet filters

Outlet filters without fan

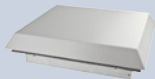
							Degree of protection IP54	Degree of protection IP55
	Size	Cutout	External dimensions W x H	Mounting depth	Cover grille height	Color	Article No.	Article No.
	Standard outlet filters, acc. to VDE, UL							
	1	92 x 92 mm	105 x 105 mm	12 mm	4.5 mm	RAL 7032	8MR6400-2GV10	–
						RAL 7035	8MR6400-5GV10	–
	2	125 x 125 mm	148 x 148 mm	23 mm	5.5 mm	RAL 7032	8MR6400-2GV25	–
						RAL 7035	8MR6400-5GV25	8MR6500-5GV25
	3	177 x 177 mm	204 x 204 mm	26 mm	6 mm	RAL 7035	8MR6400-5GV30	8MR6500-5GV30
	4	223 x 223 mm	250 x 250 mm	32 mm	6 mm	RAL 7032	8MR6400-2GV45	–
						RAL 7035	8MR6400-5GV45	8MR6500-5GV45
	6	292 x 292 mm	323 x 323 mm	33 mm	6.5 mm	RAL 7032	8MR6400-2GV67	–
						RAL 7035	8MR6400-5GV67	8MR6500-5GV67
	EMC outlet filters, acc. to VDE, UL							
	3	177 x 177 mm	204 x 204 mm	26 mm	6 mm	RAL 7035	8MR6400-6GV30	8MR6500-6GV30
	4	223 x 223 mm	250 x 250 mm	32 mm	6 mm	RAL 7035	8MR6400-6GV45	8MR6500-6GV45

Filter mats for filter fans and outlet filters

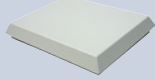
	Size	Degree of protection IP54		Degree of protection IP55	
		Dimensions W x H	Article No.	Dimensions W x H	Article No.
	Standard filter mats, acc. to VDE				
	1	92 × 92 mm	8MR6000-0AM10	–	–
	2	125 × 125 mm	8MR6000-0AM25	116 × 116 mm	8MR6000-0CF25
	3	177 × 177 mm	8MR6000-0AM30	169 × 169 mm	8MR6000-0CF30
	4	223 × 223 mm	8MR6000-0AM45	215 × 215 mm	8MR6000-0CF45
	6	292 × 292 mm	8MR6000-0AM67	281 × 281 mm	8MR6000-0CF67

Roof filter fans and roof outlet filters

Roof filter fans

	Air current, free-blowing at 50 Hz	External dimensions W x H x D	Voltage	Input rating	Standard	Degree of protection IP44 Article No.	Degree of protection IP54 Article No.
	For cutout 223 x 223 mm, color RAL 7035						
	71 m³/h	287 x 287 x 104 mm	230 V AC, 50/60 Hz	40 W	VDE, UL	–	8MR6423-5VL44
			115 V AC, 50/60 Hz	48 W	VDE	–	8MR6411-5VL44
			24 V DC	8.8 W	VDE, UL	–	8MR6402-5VL44
	240 m³/h	287 x 287 x 174 mm	230 V AC, 50/60 Hz	45 W	VDE, UL	–	8MR6423-5VL41
			115 V AC, 50/60 Hz	43 W	VDE	–	8MR6411-5VL41
			24 V DC	16 W	VDE, UL	–	8MR6402-5VL41
	300 m³/h	287 x 287 x 174 mm	230 V AC, 50/60 Hz	45 W	VDE, UL	–	8MR6423-5VL55
	For cutout 292 x 292 mm, color RAL 7035						
	232 m³/h	361 x 361 x 114 mm	230 V AC, 50/60 Hz	68 W	VDE, UL	–	8MR6423-5VL64
			115 V AC, 50/60 Hz	68 W	VDE	–	8MR6411-5VL64
			24 V DC	14 W	VDE, UL	–	8MR6402-5VL64
	550 m³/h	361 x 361 x 211 mm	230 V AC, 50/60 Hz	64 W	VDE, UL	–	8MR6423-5VL60
			115 V AC, 50/60 Hz	64 W	VDE	–	8MR6411-5VL60
			24 V DC	55 W	VDE, UL	–	8MR6402-5VL60
	840 m³/h	361 x 361 x 203 mm	230 V AC, 50/60 Hz	135 W	VDE, UL	–	8MR6423-5VL80
			115 V AC, 50/60 Hz	115 W	VDE	–	8MR6411-5VL80
			24 V DC	105 W	VDE, UL	–	8MR6402-5VL80
	For cutout 345 x 265 mm, color RAL 7035, metal						
	405 m³/h	420 x 340 x 108 mm	115 V AC, 50/60 Hz	40/45 W	VDE, UL	8MR6311-5DL40	–
			230 V AC, 50/60 Hz	40/45 W	VDE, UL	8MR6323-5DL40	–
	690 m³/h	420 x 340 x 108 mm	115 V AC, 50/60 Hz	100/130 W	VDE, UL	8MR6311-5DL42	–
			230 V AC, 50/60 Hz	100/130 W	VDE, UL	8MR6323-5DL42	–

Roof outlet filters without fan

	External dimensions W x H x D	Degree of protection IP44 Article No.	Degree of protection IP54 Article No.
	For cutout 223 x 223 mm, color RAL 7035, acc. to VDE, UL		
	287 x 287 x 85 mm	–	8MR6400-5VE45
	For cutout 292 x 292 mm, color RAL 7035, acc. to VDE, UL		
	361 x 361 x 96 mm	–	8MR6400-5VE67
	For cutout 345 x 265 mm, color RAL 7035, metal, acc. to VDE, UL		
	420 x 340 x 83 mm	8MR6000-5DE40	–

Air conditioners/cooling devices

For door or side mounting, degree of protection inside IP54/outside IP34, color RAL 7035

	Cooling capacity	Rated power	Dimensions W × H × D	Air capacity		Design	Mounting		Article No.
				Inside	Outside		Undrilled	Part	
	230 V, 50/60 Hz, acc. to VDE								
	380 W	280 W	285 × 460 × 180 mm	280 m³/h	280 m³/h	■	■	–	8MR6423-5EG04
	640 W	400 W	360 × 606 × 212 mm	330 m³/h	570 m³/h	■	■	–	8MR6423-5EG06
	820 W	440 W	348 × 783 × 215 mm	330 m³/h	570 m³/h	■	■	–	8MR6423-5EG08
	1050 W	570 W	348 × 783 × 215 mm	570 m³/h	860 m³/h	■	■	■	8MR6423-5SK10
	1550 W	880 W	400 × 950 × 233 mm	570 m³/h	1050 m³/h	■	■	■	8MR6423-5SK15
	2050 W	1080 W	400 × 1265 × 236 mm	860 m³/h	1050 m³/h	■	■	■	8MR6423-5SK20
	400 V, 50/60 Hz, acc. to VDE								
	2900 W	1220 W	500 × 1270 × 336 mm	860 m³/h	1450 m³/h	■	■	–	8MR6440-5EG30
	3850 W	1780 W	500 × 1270 × 336 mm	1450 m³/h	1450 m³/h	■	■	–	8MR6440-5EG40
	5800 W	2340 W	600 × 2000 × 380 mm	1450 m³/h	2900 m³/h	■	■	–	8MR6440-5EG60

For roof mounting, degree of protection inside IP54/outside IP34, color RAL 7035

	Cooling capacity	Rated power	Dimensions W × H × D	Air capacity		Design	Mounting		Article No.
				Inside	Outside		Undrilled	Part	
	230 V, 50/60 Hz, acc. to VDE								
	410 W	270 W	259 × 264 × 486 mm	235 m³/h	330 m³/h	■	■	–	8MR6423-5DE04
	820 W	510 W	340 × 340 × 600 mm	330 m³/h	570 m³/h	■	■	–	8MR6423-5DE08
	1150 W	550 W	401 × 415 × 567 mm	570 m³/h	1010 m³/h	■	■	–	8MR6423-5DE12
	1550 W	810 W	401 × 415 × 567 mm	860 m³/h	1820 m³/h	■	■	–	8MR6423-5DE15
	2050 W	1190 W	401 × 415 × 567 mm	1050 m³/h	1820 m³/h	■	■	–	8MR6423-5DE20
	400 V, 50/60 Hz, acc. to VDE								
	2900 W	1210 W	492 × 496 × 797 mm	860 m³/h	3410 m³/h	■	■	–	8MR6440-5DE30
	3850 W	1630 W	492 × 496 × 797 mm	1450 m³/h	3410 m³/h	■	■	–	8MR6440-5DE40

Heat exchangers

Air/air heat exchangers, degree of protection IP54, color RAL 7035

	Thermal power	Rated power	Dimensions W × H × D	Air capacity		Design	Mounting		Article No.
				Inside	Outside		Undrilled	Part	
	230 V, 50/60 Hz, acc. to VDE								
	36 W/K	140 W	316 × 771 × 103 mm	570 m³/h	570 m³/h	■	■	–	8MR6423-5ML36
	80 W/K	240 W	317 × 1260 × 148 mm	1050 m³/h	1050 m³/h	■	■	–	8MR6423-5ML80

Heater units

	Rated value	Rated power	Shutdown temperature	Article No.
	Heater units with PTC thermistor, UL-approved, acc. to VDE, UL			
	120 ... 240 V AC/DC	15 W	–	8MR2130-1A
		30 W	–	8MR2130-3A
		45 W	–	8MR2130-4A
		60 W	–	8MR2130-6A
		75 W	–	8MR2130-7A
		100 W	–	8MR2130-0A
		150 W	–	8MR2130-5A
	Semiconductor heater units without thermostat, compact design, UL-approved, acc. to VDE			
	120 ... 240 V AC/DC	50 W	–	8MR2131-4A
		100 W	–	8MR2131-0A
		150 W	–	8MR2131-5A
	Semiconductor heater units with thermostat, compact design, acc. to VDE			
	120 ... 240 V AC/DC	50 W	15 °C	8MR2132-1A
			25 °C	8MR2132-1AB
		100 W	15 °C	8MR2132-0A
			25 °C	8MR2132-0AB
		150 W	15 °C	8MR2132-5A
			25 °C	8MR2132-5AB
	Semiconductor heater units, acc. to VDE			
	12 ... 30 V AC/DC	15 W	–	8MR2130-1BA
		30 W	–	8MR2130-3BA
		45 W	–	8MR2130-4BA
		60 W	–	8MR2130-6BA

Fan heaters

Fan heaters



Version	Voltage	Continuous heat output	Parameter	Article No.
Standard version, acc. to VDE, UL				
Without fan	230 V AC	100 W	–	8MR2140-0A
		150 W	–	8MR2140-1A
		200 W	–	8MR2140-2A
		300 W	–	8MR2140-3A
		400 W	–	8MR2140-4A
With fan	230 V AC	100 W	–	8MR2140-0B
		150 W	–	8MR2140-1B
		200 W	–	8MR2140-2B
		300 W	–	8MR2140-3B
		400 W	–	8MR2140-4B
Compact fan heater, acc. to VDE, UL				
Without fan	230 V AC	250 W	–	8MR2122-4A
		400 W	–	8MR2122-8A
	120 V AC	250 W	–	8MR2122-4B
		400 W	–	8MR2122-8B
With fan	24 V DC	250 W	–	8MR2122-4AB
	48 V DC	250 W	–	8MR2122-4AC
	400 W	–	8MR2122-8AA	
With integrated thermostat, acc. to VDE, UL				
For floor mounting	230 V AC	950 W	0 ... +60 °C	8MR2150-0A
For wall mounting	230 V AC	950 W	0 ... +60 °C	8MR2150-0C
With integrated hygrostat, acc. to VDE, UL				
For wall mounting	230 V AC	950 W	65% R.H.	8MR2150-0CA




Semiconductor fan heaters

	Mounting	Voltage	Continuous heat output	Version	Article No.
	Fan heaters, acc. to VDE, UL				
	Clip fixing	230 V AC	150 W	–	8MR2150-2C
			250 W	–	8MR2150-5A
			400 W	–	8MR2150-4A
	120 V AC	250 W	–	8MR2150-5AA	
400 W		–	8MR2150-4AA		
	Screw fixing	230 V AC	150 W	–	8MR2150-2D
			250 W	–	8MR2150-5B
			400 W	–	8MR2150-4B
	120 V AC	250 W	–	8MR2150-5AB	
		400 W	–	8MR2150-4AB	
	PTC fan heaters for wall mounting, acc. to VDE, UL				
	Screw fixing	230 V AC	1200 W	With thermostat 0 ... +60 °C	8MR2150-3A
			1200 W	Without thermostat	8MR2150-3B
	Clip fixing	120 V AC	1200 W	With thermostat +32 ... +140 °F	8MR2151-3A
			1200 W	Without thermostat	8MR2151-3B
	PTC fan heaters for floor mounting, acc. to VDE, UL				
	Screw fixing	230 V AC	1200 W	With thermostat 0 ... +60 °C	8MR2150-2A
			1200 W	Without thermostat	8MR2150-2B
	Clip fixing	120 V AC	1200 W	With thermostat +32 ... +140 °F	8MR2151-2A
			1200 W	Without thermostat	8MR2151-2B

Thermostats

Adjustable thermostats



Version	Max. switching power	Temperature range	Article No.
Mini thermostat, acc. to VDE, UL			
NC with red adjusting knob	250 V AC, 10 (2) A	–10 ... +50 °C	8MR2170-1CA
		0 ... +60 °C	8MR2170-2BA
		+20 ... +80 °C	8MR2170-1DA
NO with blue adjusting knob	250 V AC, 10 (2) A	–10 ... +50 °C	8MR2170-1CB
		0 ... +60 °C	8MR2170-2BB
		+20 ... +80 °C	8MR2170-1DB
Mechanical thermostat, acc. to VDE, UL			
CO	250 V AC, 10 (4) A	+5 ... +60 °C	8MR2170-1A
		–20 ... +30 °C	8MR2170-1B
Electronic thermostat, acc. to VDE			
CO	230 V AC, 8 (1.6) A	–20 ... +60 °C	8MR2170-1GA
	120 V AC, 8 (1.6) A	–4 ... +140 °F	8MR2170-1GB
	24 V DC, 16 A	0 ... +60 °C	8MR2170-2A
CO, integrated	230 V AC, 8 (1.6) A	–20 ... +60 °C	8MR2170-1GC
Twin thermostat, acc. to VDE, UL			
NC and NO	250 V AC, 10 (2) A	0 ... +60 °C	8MR2170-1E
NO and NO	250 V AC, 10 (2) A	0 ... +60 °C	8MR2170-1EA

Thermostats

Tamper-proof thermostats

	Version	Max. switching power	Shutdown temperature	Article No.
	Tamper-proof thermostat, acc. to VDE, UL			
	NC	250 V AC, 5 (1.6) A	15 °C	8MR2171-1BA
			25 °C	8MR2171-2BA
	NO	250 V AC, 5 (1.6) A	35 °C	8MR2171-3BB
			50 °C	8MR2171-1BB
			60 °C	8MR2171-2BB
	Twin thermostat, acc. to VDE, UL			
	NC and NO	250 V AC, 5 (1.6) A	15 °C 50 °C (NC NO)	8MR2172-1A
		250 V AC, 5 (1.6) A or 30 W DC	25 °C 60 °C (NC NO)	8MR2172-2A
	NO and NO	250 V AC, 5 (1.6) A	50 °C 60 °C (NO NO)	8MR2172-1AB

Hygrostats and hygrotherms

Hygrostats

	Version	Relative air humidity	Voltage	Max. switching power	Article No.
	Mechanical hygrostat, acc. to VDE, UL				
	CO	35 ... 95%	230 V AC	250 V AC, 5 (0.2) A/20 W DC	8MR2170-1C
	Electronic hygrostat, acc. to VDE				
	CO	40 ... 90%	230 V AC	240 V AC, 8 (1.6) A	8MR2170-1AF
			120 V AC	240 V AC, 8 (1.6) A	8MR2170-2AF
		65%	230 V AC	240 V AC	8MR2170-1BF
			120 V AC	120 V AC	8MR2170-2BF

Hygrotherms

	Version	Relative air humidity	Temperature range	Voltage	Max. switching power	Article No.
	Electronic hygrotherm, acc. to VDE, UL					
	NC and NO	50 ... 90%	+32 ... +140 °F	100 ... 240 V AC	NC: 120 V AC, 6 (1) A NO: 120 V AC, 8 (1.6) A	8MR2170-4F
			0 ... +60 °C	100 ... 240 V AC	NC: 100 ... 240 V AC, 6 (1) A NO: 100 ... 240 V AC, 8 (1.6) A	8MR2170-4E